

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P179078

Luminaire Tested: **VERD-A016-E-U-T4-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26294)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A016-E-U-T4-7030-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K LED AT 60% STANDARD LUMENS AND TYPE IV OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3704 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 36
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

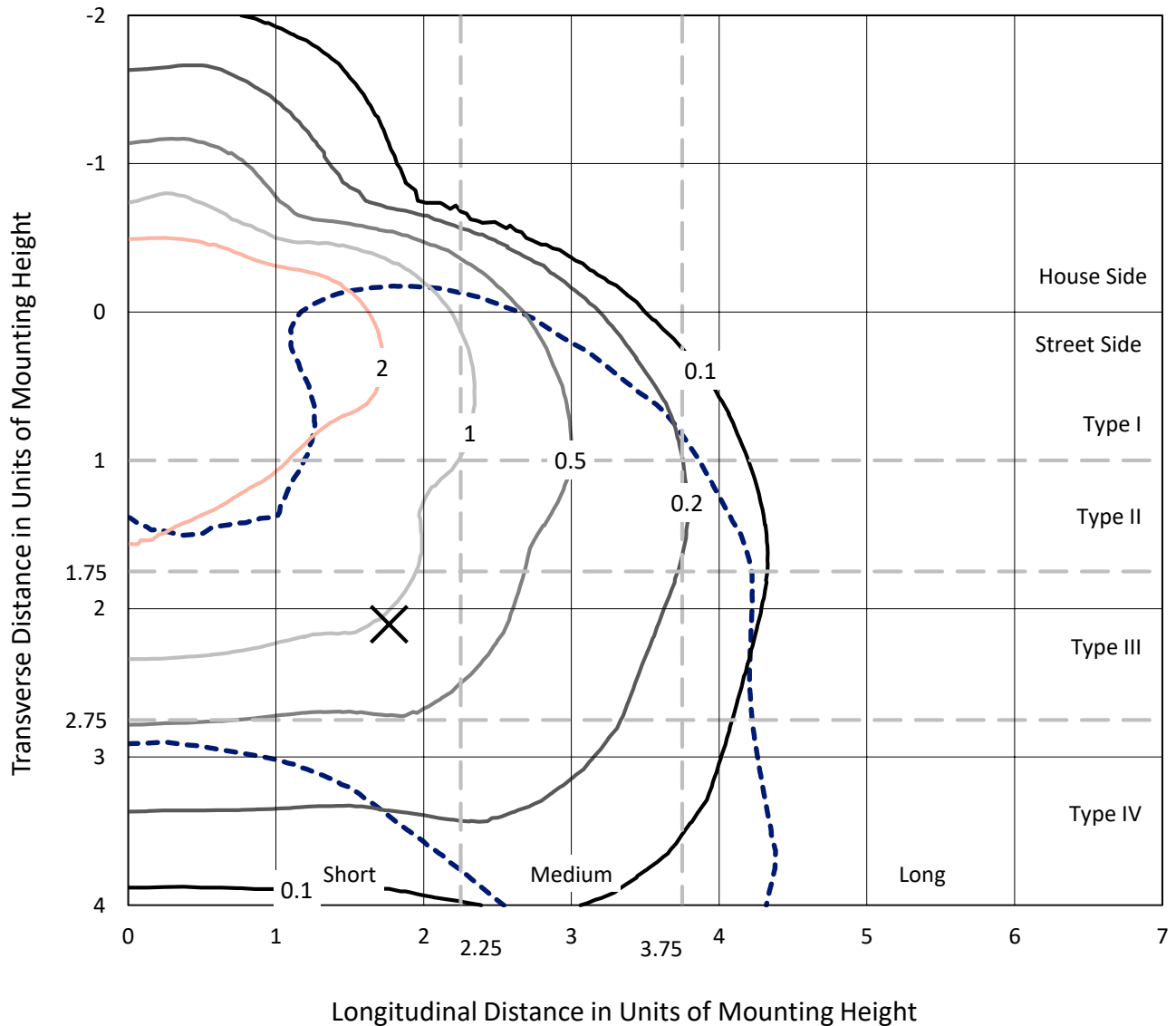


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Iso-Footcandle Lines of Horizontal Illumination

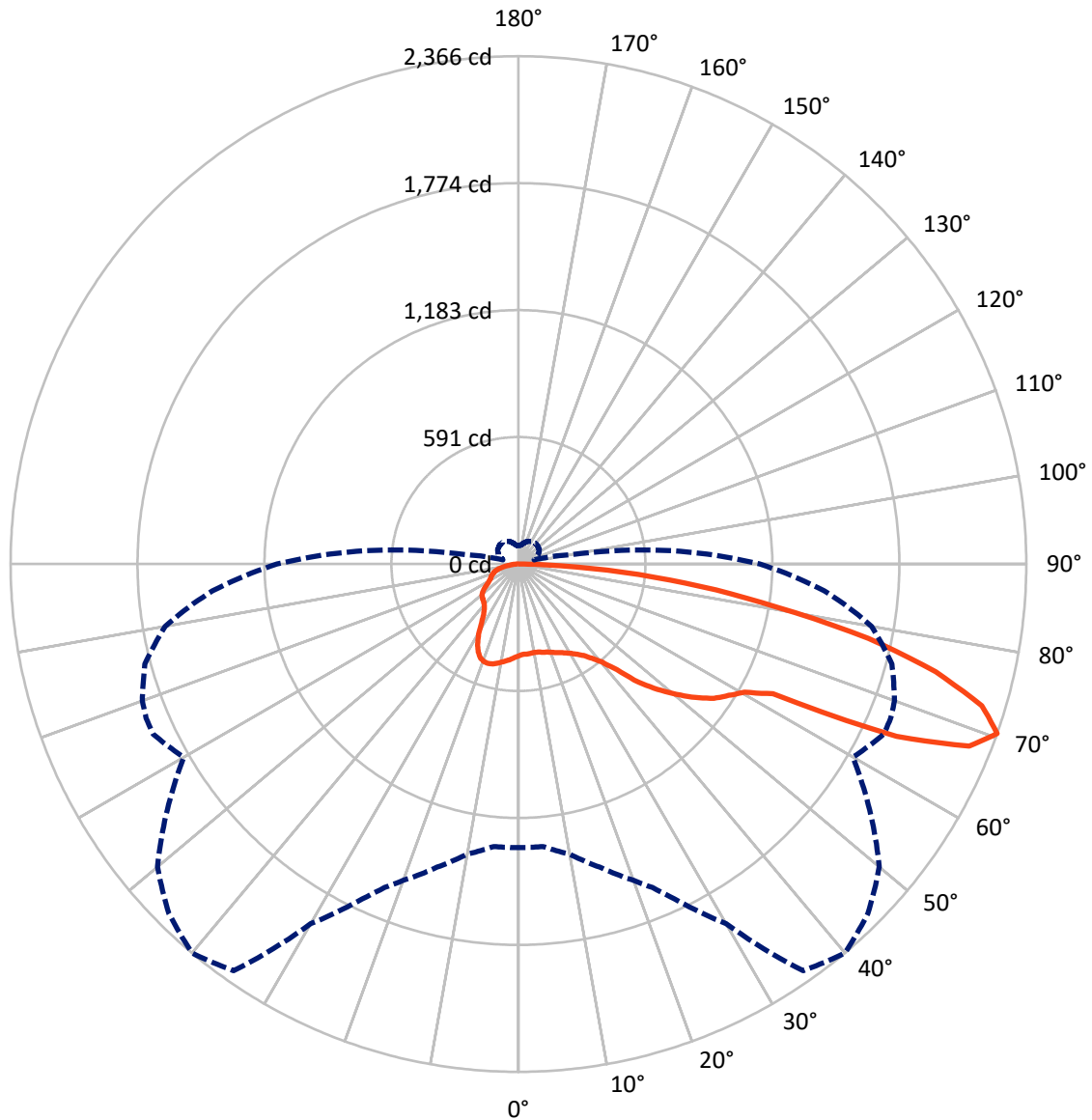
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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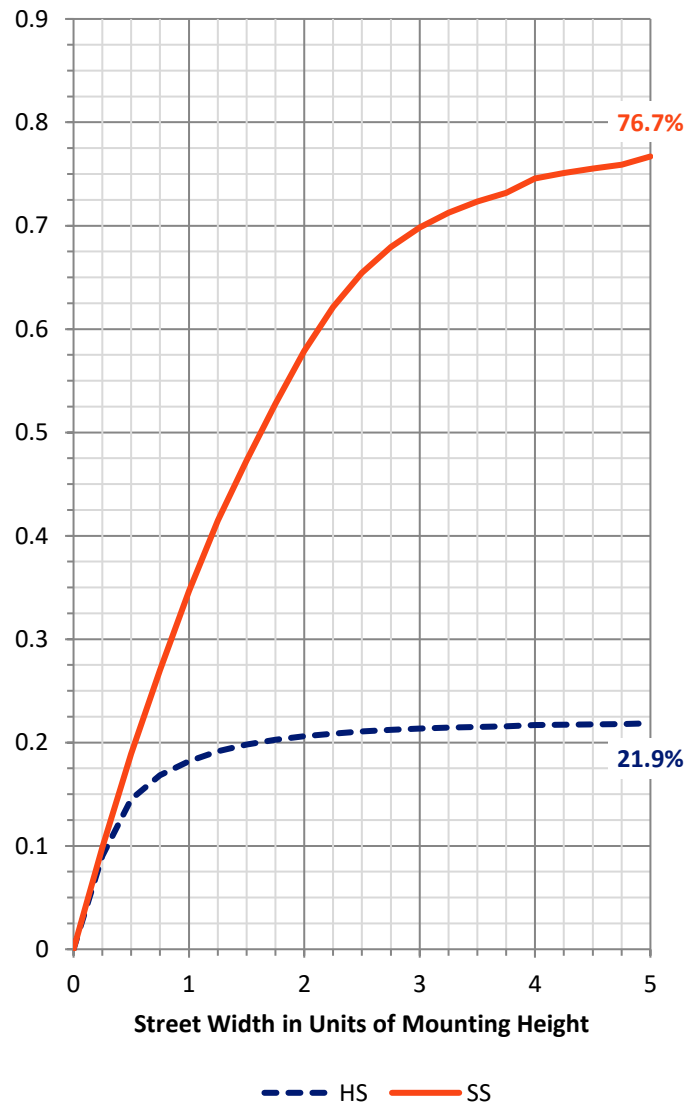
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 820.5 | 0.0 | 820.5 |
| | % Fixture | 22.2 | 0.0 | 22.2 |
| Street Side | Lumens | 2883.5 | 0.0 | 2883.5 |
| | % Fixture | 77.8 | 0.0 | 77.8 |
| Total | Lumens | 3704.0 | 0.0 | 3704.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.5 | 1.1 |
| 10°-20° | 129.7 | 3.5 |
| 20°-30° | 217.2 | 5.9 |
| 30°-40° | 306.2 | 8.3 |
| 40°-50° | 479.5 | 12.9 |
| 50°-60° | 701.3 | 18.9 |
| 60°-70° | 972.7 | 26.3 |
| 70°-80° | 728.8 | 19.7 |
| 80°-90° | 126.9 | 3.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3704.0 | 100.0 |
| 0°-180° | 3704.0 | 100.0 |

Coefficient of Utilization



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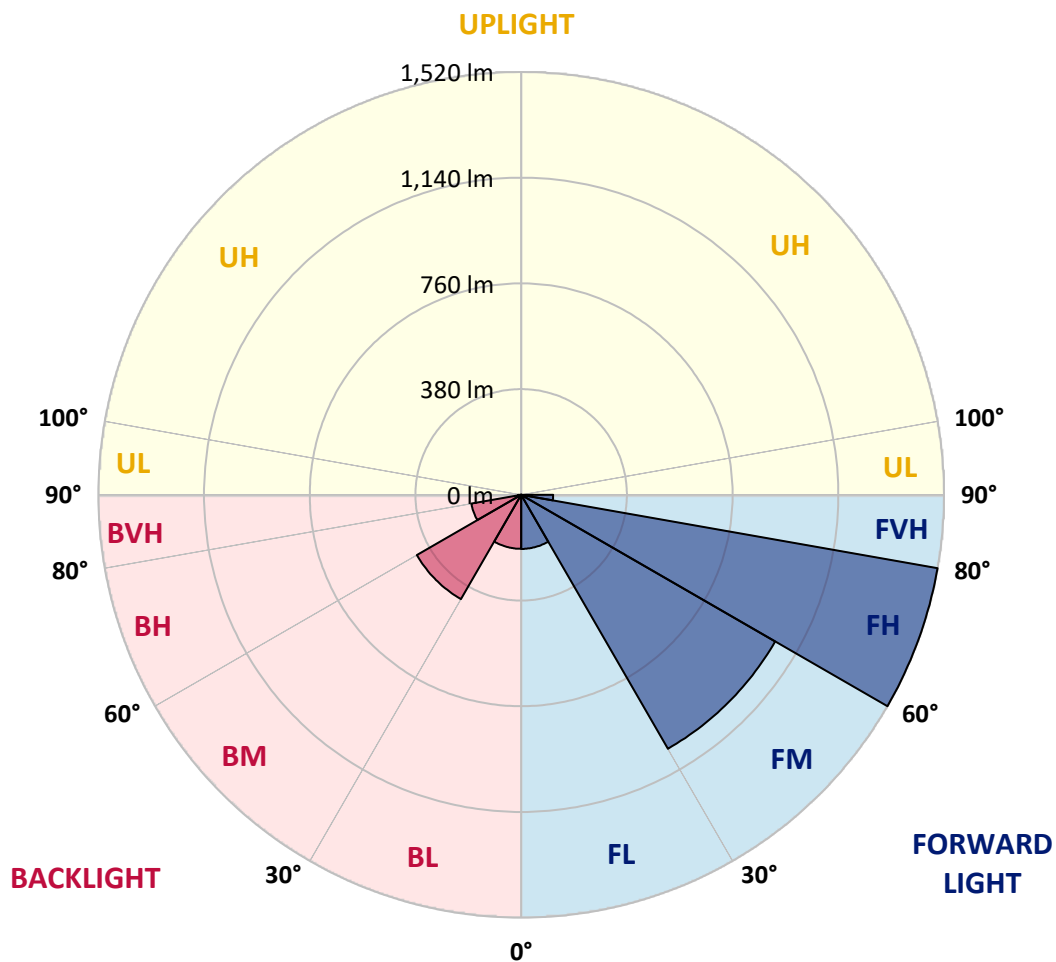
CATALOG NUMBER: VERD-A016-E-U-T4-7030-AP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 194.4 | 5.2 | | | |
| FM | (30°-60°) | 1054.1 | 28.5 | | | |
| FH | (60°-80°) | 1519.7 | 41.0 | | | G1/1800 |
| FVH | (80°-90°) | 115.2 | 3.1 | | | G2/225 |
| BL | (0°-30°) | 194.1 | 5.2 | B1/500 | | |
| BM | (30°-60°) | 432.9 | 11.7 | B1/1000 | | |
| BH | (60°-80°) | 181.8 | 4.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 11.7 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 |
| 2.5° | 423.3 | 422.9 | 420.8 | 420.0 | 417.6 | 418.8 | 421.2 | 423.3 | 422.5 | 421.2 | 422.1 |
| 5° | 422.1 | 421.2 | 419.6 | 418.4 | 415.9 | 416.3 | 418.8 | 420.0 | 421.6 | 421.2 | 422.1 |
| 7.5° | 416.7 | 415.9 | 413.5 | 413.0 | 411.0 | 411.4 | 412.6 | 414.7 | 418.0 | 419.6 | 420.0 |
| 10° | 413.5 | 411.8 | 409.8 | 409.8 | 407.7 | 408.1 | 409.4 | 411.4 | 415.5 | 418.4 | 419.6 |
| 12.5° | 411.8 | 410.6 | 409.4 | 409.8 | 408.5 | 409.4 | 410.6 | 413.0 | 417.1 | 420.8 | 421.6 |
| 15° | 414.7 | 414.7 | 413.0 | 413.9 | 413.9 | 415.5 | 416.7 | 418.4 | 421.6 | 426.2 | 429.0 |
| 17.5° | 422.5 | 422.9 | 421.2 | 422.9 | 422.9 | 424.1 | 425.3 | 426.2 | 427.4 | 431.5 | 436.4 |
| 20° | 425.7 | 427.0 | 426.6 | 429.4 | 431.5 | 432.7 | 433.5 | 435.2 | 435.6 | 438.4 | 443.0 |
| 22.5° | 434.8 | 433.9 | 433.9 | 438.0 | 438.0 | 439.7 | 440.9 | 441.7 | 443.8 | 448.3 | 451.6 |
| 25° | 444.6 | 443.4 | 443.8 | 447.1 | 446.2 | 446.6 | 447.9 | 449.5 | 451.6 | 457.3 | 463.4 |
| 27.5° | 451.2 | 450.7 | 451.2 | 453.6 | 455.7 | 456.5 | 457.7 | 459.3 | 463.9 | 468.8 | 475.7 |
| 30° | 465.5 | 465.5 | 461.8 | 463.4 | 464.7 | 465.5 | 467.5 | 472.1 | 477.4 | 483.1 | 490.1 |
| 32.5° | 489.3 | 489.7 | 484.8 | 483.1 | 481.5 | 481.1 | 482.3 | 490.1 | 493.8 | 500.7 | 508.1 |
| 35° | 513.8 | 510.2 | 507.7 | 510.2 | 511.0 | 510.2 | 510.6 | 515.1 | 517.5 | 523.7 | 530.2 |
| 37.5° | 579.8 | 570.8 | 566.7 | 564.7 | 554.8 | 547.4 | 545.0 | 546.6 | 548.7 | 556.9 | 563.8 |
| 40° | 675.7 | 675.7 | 665.1 | 658.9 | 642.5 | 630.6 | 622.0 | 606.5 | 597.4 | 600.3 | 606.9 |
| 42.5° | 779.8 | 774.5 | 767.9 | 753.1 | 742.5 | 727.7 | 717.1 | 694.6 | 678.6 | 672.0 | 659.7 |
| 45° | 862.1 | 865.4 | 867.9 | 856.0 | 847.4 | 840.8 | 835.5 | 825.7 | 805.6 | 786.8 | 760.5 |
| 47.5° | 939.6 | 943.3 | 942.9 | 916.6 | 923.2 | 924.0 | 922.8 | 911.7 | 890.4 | 872.0 | 841.7 |
| 50° | 1016.2 | 1024.0 | 1015.0 | 972.0 | 981.8 | 984.3 | 984.7 | 975.7 | 959.7 | 953.5 | 939.2 |
| 52.5° | 1111.3 | 1104.3 | 1063.3 | 1036.7 | 1031.4 | 1033.0 | 1032.6 | 1031.0 | 1031.8 | 1033.4 | 1030.2 |
| 55° | 1220.7 | 1165.4 | 1112.1 | 1098.2 | 1088.7 | 1082.2 | 1077.7 | 1070.3 | 1074.8 | 1104.7 | 1103.5 |
| 57.5° | 1236.3 | 1234.2 | 1231.3 | 1174.0 | 1158.0 | 1153.5 | 1144.5 | 1137.9 | 1115.4 | 1154.7 | 1172.3 |
| 60° | 1481.7 | 1505.9 | 1478.8 | 1459.6 | 1424.8 | 1373.9 | 1312.9 | 1244.5 | 1177.7 | 1210.9 | 1237.1 |
| 62.5° | 1748.1 | 1748.1 | 1780.0 | 1758.7 | 1736.6 | 1694.8 | 1672.3 | 1584.2 | 1457.5 | 1330.5 | 1333.8 |
| 65° | 1776.3 | 1787.0 | 1812.8 | 1863.6 | 1885.3 | 1896.8 | 1912.4 | 1904.2 | 1923.4 | 1935.7 | 1714.9 |
| 67.5° | 1597.3 | 1610.4 | 1643.6 | 1721.8 | 1798.5 | 1836.2 | 1880.4 | 1975.9 | 2151.7 | 2264.0 | 2234.5 |
| 70° | 1320.7 | 1321.1 | 1371.9 | 1462.0 | 1568.2 | 1630.9 | 1720.2 | 1934.5 | 2312.7 | 2365.6 | 2302.5 |
| 72.5° | 978.1 | 977.7 | 1032.2 | 1112.5 | 1219.1 | 1308.0 | 1399.4 | 1710.0 | 2197.2 | 2257.4 | 2230.4 |
| 75° | 689.2 | 692.5 | 737.6 | 810.9 | 904.4 | 975.7 | 1062.9 | 1391.6 | 1858.3 | 2007.4 | 2050.1 |
| 77.5° | 480.7 | 492.1 | 520.4 | 581.5 | 660.1 | 717.5 | 785.5 | 1060.1 | 1463.7 | 1667.3 | 1732.5 |
| 80° | 305.7 | 315.9 | 341.3 | 395.4 | 464.3 | 515.1 | 568.8 | 774.5 | 1089.2 | 1220.7 | 1280.5 |
| 82.5° | 174.6 | 181.5 | 204.1 | 247.1 | 299.5 | 339.7 | 381.1 | 520.8 | 772.0 | 855.6 | 839.6 |
| 85° | 85.6 | 90.1 | 104.9 | 134.0 | 173.7 | 202.4 | 231.5 | 315.1 | 440.5 | 488.0 | 463.9 |
| 87.5° | 22.9 | 24.6 | 30.7 | 43.8 | 59.8 | 71.7 | 82.4 | 116.8 | 144.2 | 125.0 | 93.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 |
| 2.5° | 421.2 | 419.2 | 420.4 | 420.8 | 420.8 | 422.1 | 423.3 | 424.1 | 422.5 | 426.6 | 424.9 |
| 5° | 421.6 | 419.6 | 422.5 | 423.7 | 423.7 | 424.5 | 427.0 | 427.8 | 428.6 | 431.5 | 430.7 |
| 7.5° | 420.8 | 421.6 | 424.9 | 427.8 | 428.2 | 428.6 | 433.1 | 433.1 | 437.2 | 437.6 | 438.4 |
| 10° | 421.6 | 424.9 | 428.6 | 433.9 | 435.2 | 435.6 | 439.7 | 442.1 | 447.1 | 445.4 | 449.1 |
| 12.5° | 425.3 | 431.1 | 435.2 | 443.0 | 445.8 | 447.1 | 452.8 | 458.1 | 463.9 | 462.2 | 465.5 |
| 15° | 432.3 | 439.7 | 445.8 | 455.2 | 458.9 | 461.8 | 469.6 | 478.2 | 482.7 | 483.9 | 488.9 |
| 17.5° | 440.1 | 448.7 | 456.9 | 466.7 | 472.1 | 476.1 | 485.2 | 496.6 | 501.1 | 506.1 | 511.4 |
| 20° | 447.5 | 457.3 | 465.1 | 475.7 | 482.3 | 488.0 | 500.3 | 512.6 | 519.6 | 527.8 | 533.9 |
| 22.5° | 455.7 | 465.1 | 473.7 | 484.8 | 492.5 | 500.3 | 516.3 | 529.0 | 540.1 | 549.9 | 558.1 |
| 25° | 468.8 | 475.7 | 486.0 | 497.5 | 506.9 | 517.1 | 533.5 | 547.4 | 562.6 | 574.1 | 583.5 |
| 27.5° | 482.7 | 488.4 | 499.9 | 514.3 | 524.1 | 534.3 | 549.9 | 567.5 | 586.0 | 601.5 | 614.2 |
| 30° | 497.0 | 505.2 | 519.6 | 534.3 | 543.8 | 553.6 | 570.4 | 593.3 | 615.9 | 636.4 | 647.4 |
| 32.5° | 514.7 | 526.1 | 543.8 | 559.3 | 567.5 | 576.5 | 596.6 | 623.3 | 655.2 | 677.3 | 678.6 |
| 35° | 540.1 | 554.0 | 572.4 | 588.8 | 596.6 | 606.5 | 630.2 | 662.2 | 702.7 | 720.8 | 711.8 |
| 37.5° | 574.1 | 591.3 | 608.9 | 626.9 | 636.0 | 647.8 | 675.7 | 722.4 | 767.5 | 775.7 | 752.3 |
| 40° | 620.0 | 636.8 | 656.9 | 677.8 | 691.3 | 707.3 | 744.1 | 818.7 | 859.3 | 848.2 | 808.5 |
| 42.5° | 669.6 | 693.3 | 717.9 | 747.8 | 767.5 | 784.3 | 840.8 | 929.3 | 951.1 | 930.6 | 870.3 |
| 45° | 751.5 | 765.0 | 789.6 | 825.3 | 847.8 | 875.3 | 956.4 | 1048.2 | 1060.5 | 1019.5 | 937.5 |
| 47.5° | 830.6 | 829.4 | 853.5 | 903.9 | 936.3 | 978.9 | 1082.2 | 1168.2 | 1167.0 | 1115.0 | 1010.9 |
| 50° | 926.1 | 925.3 | 936.7 | 998.2 | 1044.1 | 1094.5 | 1224.4 | 1287.5 | 1266.6 | 1199.8 | 1081.0 |
| 52.5° | 1018.3 | 1026.9 | 1049.8 | 1099.8 | 1146.5 | 1211.3 | 1346.1 | 1383.0 | 1359.2 | 1276.8 | 1140.0 |
| 55° | 1103.9 | 1121.9 | 1152.7 | 1217.0 | 1276.4 | 1358.4 | 1464.5 | 1479.7 | 1438.7 | 1336.7 | 1182.6 |
| 57.5° | 1185.9 | 1210.9 | 1253.5 | 1341.2 | 1426.0 | 1501.0 | 1565.3 | 1563.7 | 1503.0 | 1382.6 | 1210.0 |
| 60° | 1262.5 | 1299.8 | 1354.7 | 1467.4 | 1563.7 | 1620.6 | 1662.8 | 1637.8 | 1552.6 | 1412.1 | 1219.5 |
| 62.5° | 1351.0 | 1389.9 | 1453.0 | 1604.2 | 1688.6 | 1727.6 | 1739.9 | 1689.5 | 1580.5 | 1417.8 | 1203.5 |
| 65° | 1519.0 | 1531.3 | 1578.4 | 1739.5 | 1794.4 | 1809.1 | 1789.4 | 1712.0 | 1585.8 | 1398.9 | 1144.1 |
| 67.5° | 2062.4 | 1759.5 | 1703.0 | 1842.7 | 1862.8 | 1855.8 | 1809.1 | 1711.6 | 1555.9 | 1322.7 | 1001.1 |
| 70° | 2194.7 | 1996.8 | 1799.3 | 1877.1 | 1876.7 | 1864.0 | 1801.3 | 1670.2 | 1430.5 | 1123.6 | 715.9 |
| 72.5° | 2142.7 | 1955.0 | 1787.8 | 1842.3 | 1856.6 | 1857.1 | 1727.6 | 1499.7 | 1158.0 | 765.0 | 331.5 |
| 75° | 2006.2 | 1830.8 | 1760.8 | 1755.8 | 1730.0 | 1657.1 | 1432.5 | 1128.9 | 702.7 | 304.9 | 49.2 |
| 77.5° | 1698.1 | 1533.8 | 1414.5 | 1294.9 | 1229.7 | 1126.0 | 840.8 | 506.5 | 231.1 | 36.9 | 31.6 |
| 80° | 1201.0 | 982.2 | 728.6 | 553.2 | 466.3 | 319.2 | 109.4 | 40.2 | 33.2 | 23.4 | 20.1 |
| 82.5° | 710.9 | 484.3 | 212.3 | 49.2 | 37.7 | 34.8 | 29.1 | 25.0 | 21.3 | 14.3 | 12.7 |
| 85° | 362.6 | 191.8 | 27.9 | 22.9 | 21.7 | 20.5 | 17.6 | 15.6 | 11.9 | 7.8 | 8.6 |
| 87.5° | 48.8 | 14.8 | 8.2 | 8.2 | 7.8 | 7.8 | 7.4 | 5.7 | 3.7 | 2.5 | 2.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 |
| 2.5° | 424.9 | 426.2 | 427.4 | 428.2 | 429.0 | 429.4 | 430.7 | 430.7 | 432.3 | 434.4 | 436.0 |
| 5° | 430.7 | 433.5 | 433.5 | 434.4 | 436.8 | 436.8 | 439.3 | 438.9 | 441.7 | 445.0 | 445.4 |
| 7.5° | 439.3 | 443.4 | 442.5 | 443.4 | 446.2 | 447.1 | 448.7 | 447.5 | 451.6 | 454.0 | 454.4 |
| 10° | 451.2 | 453.6 | 454.4 | 455.7 | 458.1 | 460.2 | 460.6 | 459.3 | 462.6 | 462.6 | 463.0 |
| 12.5° | 470.8 | 471.6 | 474.5 | 474.9 | 474.9 | 478.2 | 476.6 | 474.9 | 475.3 | 472.5 | 470.4 |
| 15° | 494.6 | 494.2 | 498.7 | 498.3 | 496.6 | 498.3 | 494.6 | 491.3 | 488.0 | 480.7 | 474.5 |
| 17.5° | 517.1 | 517.5 | 520.8 | 519.6 | 518.4 | 516.7 | 511.8 | 505.7 | 496.6 | 484.3 | 473.7 |
| 20° | 539.7 | 540.1 | 539.7 | 538.4 | 536.8 | 529.0 | 521.6 | 511.8 | 499.1 | 481.9 | 467.1 |
| 22.5° | 563.0 | 563.0 | 558.9 | 556.5 | 553.2 | 539.7 | 527.8 | 513.0 | 494.2 | 472.1 | 451.6 |
| 25° | 587.6 | 588.0 | 578.6 | 573.3 | 567.5 | 546.6 | 528.2 | 506.1 | 479.0 | 450.3 | 424.9 |
| 27.5° | 615.9 | 608.9 | 592.9 | 583.5 | 572.4 | 544.6 | 516.7 | 488.4 | 454.4 | 418.8 | 386.0 |
| 30° | 640.1 | 622.8 | 597.8 | 583.5 | 566.7 | 532.7 | 494.6 | 456.9 | 417.1 | 376.2 | 336.0 |
| 32.5° | 661.0 | 631.9 | 595.4 | 575.3 | 552.8 | 509.3 | 465.1 | 415.9 | 370.4 | 324.1 | 292.2 |
| 35° | 680.6 | 638.4 | 590.9 | 565.1 | 536.4 | 481.1 | 427.8 | 372.1 | 324.5 | 286.0 | 259.0 |
| 37.5° | 705.2 | 645.4 | 582.7 | 550.3 | 515.9 | 451.2 | 392.6 | 338.1 | 295.4 | 264.3 | 246.7 |
| 40° | 736.8 | 653.6 | 571.2 | 531.1 | 490.1 | 418.0 | 354.4 | 304.9 | 271.7 | 249.1 | 241.4 |
| 42.5° | 774.5 | 662.6 | 553.2 | 503.2 | 455.7 | 376.2 | 313.9 | 274.5 | 252.0 | 240.9 | 236.4 |
| 45° | 814.2 | 672.0 | 531.5 | 471.2 | 417.1 | 334.4 | 278.6 | 249.1 | 238.1 | 234.4 | 231.9 |
| 47.5° | 861.3 | 684.7 | 506.1 | 433.9 | 374.1 | 293.0 | 248.7 | 229.1 | 229.1 | 229.5 | 229.1 |
| 50° | 909.7 | 697.4 | 481.1 | 394.2 | 327.0 | 252.4 | 224.1 | 217.2 | 219.6 | 222.9 | 224.1 |
| 52.5° | 950.7 | 708.9 | 472.9 | 378.6 | 286.0 | 217.2 | 203.7 | 203.2 | 206.5 | 210.6 | 211.8 |
| 55° | 972.8 | 710.9 | 479.8 | 376.2 | 277.0 | 193.4 | 183.2 | 186.0 | 189.3 | 193.8 | 193.8 |
| 57.5° | 985.1 | 695.4 | 445.4 | 322.1 | 239.7 | 172.5 | 163.9 | 168.0 | 169.2 | 173.3 | 175.8 |
| 60° | 969.1 | 661.8 | 329.9 | 225.4 | 177.0 | 147.5 | 144.6 | 150.8 | 153.3 | 158.2 | 161.0 |
| 62.5° | 925.3 | 572.4 | 206.9 | 145.9 | 131.5 | 129.1 | 131.9 | 137.7 | 142.6 | 147.5 | 150.0 |
| 65° | 821.2 | 381.5 | 115.1 | 114.3 | 117.2 | 119.7 | 127.4 | 132.8 | 137.3 | 141.8 | 141.0 |
| 67.5° | 590.5 | 142.6 | 95.9 | 100.8 | 105.7 | 114.7 | 122.9 | 129.9 | 131.5 | 134.0 | 134.0 |
| 70° | 249.1 | 75.0 | 85.6 | 91.8 | 100.8 | 110.2 | 118.4 | 120.1 | 124.2 | 124.2 | 125.0 |
| 72.5° | 56.1 | 61.1 | 73.8 | 82.4 | 92.2 | 100.8 | 108.2 | 111.9 | 113.1 | 118.8 | 117.6 |
| 75° | 44.3 | 50.4 | 65.6 | 72.9 | 78.3 | 85.6 | 94.2 | 97.9 | 101.6 | 105.7 | 108.6 |
| 77.5° | 32.0 | 39.7 | 54.1 | 59.0 | 64.3 | 72.5 | 76.6 | 82.4 | 85.6 | 88.1 | 88.5 |
| 80° | 22.5 | 32.0 | 41.8 | 44.7 | 47.9 | 49.2 | 53.7 | 62.7 | 65.2 | 69.3 | 70.5 |
| 82.5° | 16.8 | 22.1 | 25.0 | 25.8 | 26.6 | 30.3 | 31.1 | 36.1 | 38.5 | 45.1 | 48.8 |
| 85° | 12.3 | 12.7 | 9.8 | 9.4 | 9.4 | 11.5 | 13.1 | 17.2 | 20.9 | 25.4 | 27.9 |
| 87.5° | 2.9 | 3.3 | 3.7 | 4.1 | 4.5 | 5.7 | 7.8 | 11.9 | 17.2 | 22.1 | 23.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 | 426.6 |
| 2.5° | 436.4 | 439.7 | 440.5 | 440.9 | 442.5 | 443.0 | 443.4 | 443.8 |
| 5° | 445.8 | 449.9 | 450.7 | 451.2 | 453.6 | 454.0 | 454.0 | 454.8 |
| 7.5° | 454.4 | 457.7 | 458.5 | 458.9 | 461.0 | 462.2 | 462.2 | 463.0 |
| 10° | 462.2 | 463.4 | 463.0 | 463.0 | 465.1 | 465.1 | 465.1 | 465.1 |
| 12.5° | 467.5 | 465.9 | 463.9 | 462.6 | 461.4 | 459.3 | 458.1 | 456.9 |
| 15° | 468.0 | 461.8 | 457.7 | 454.8 | 450.3 | 444.2 | 440.5 | 437.2 |
| 17.5° | 461.4 | 450.7 | 445.0 | 439.7 | 429.8 | 420.0 | 413.0 | 407.3 |
| 20° | 447.9 | 429.8 | 422.1 | 414.3 | 399.1 | 385.2 | 376.6 | 370.4 |
| 22.5° | 425.3 | 399.9 | 388.5 | 379.0 | 359.4 | 343.4 | 334.4 | 328.6 |
| 25° | 393.8 | 360.6 | 345.4 | 331.9 | 314.3 | 302.0 | 294.6 | 289.7 |
| 27.5° | 348.3 | 316.3 | 304.5 | 294.2 | 278.6 | 267.6 | 259.8 | 256.9 |
| 30° | 304.5 | 280.7 | 271.7 | 263.5 | 250.8 | 240.1 | 231.9 | 228.2 |
| 32.5° | 267.6 | 252.4 | 246.3 | 240.9 | 231.5 | 220.9 | 212.3 | 209.0 |
| 35° | 243.0 | 234.4 | 230.3 | 226.2 | 216.8 | 206.5 | 196.3 | 191.8 |
| 37.5° | 238.1 | 231.9 | 228.6 | 225.4 | 217.6 | 204.9 | 193.0 | 188.1 |
| 40° | 236.0 | 231.1 | 229.5 | 227.4 | 218.4 | 206.9 | 193.8 | 188.1 |
| 42.5° | 234.0 | 232.3 | 229.9 | 226.6 | 216.8 | 205.7 | 195.0 | 188.9 |
| 45° | 231.9 | 230.3 | 227.0 | 223.7 | 213.9 | 201.6 | 191.4 | 185.2 |
| 47.5° | 228.6 | 225.0 | 221.3 | 217.6 | 208.2 | 195.5 | 183.6 | 178.2 |
| 50° | 219.2 | 213.5 | 211.0 | 206.1 | 195.5 | 182.8 | 171.7 | 168.4 |
| 52.5° | 205.7 | 198.7 | 196.3 | 191.0 | 179.9 | 166.4 | 155.7 | 151.6 |
| 55° | 190.1 | 185.2 | 183.6 | 179.1 | 168.4 | 154.5 | 145.5 | 141.4 |
| 57.5° | 177.4 | 176.2 | 175.8 | 173.7 | 164.7 | 153.3 | 146.3 | 143.4 |
| 60° | 163.1 | 163.1 | 164.7 | 166.4 | 159.8 | 146.7 | 137.7 | 135.2 |
| 62.5° | 150.0 | 148.3 | 148.7 | 148.7 | 142.2 | 131.1 | 123.7 | 120.1 |
| 65° | 138.1 | 134.4 | 133.6 | 130.7 | 122.5 | 111.0 | 103.7 | 102.0 |
| 67.5° | 129.9 | 125.0 | 123.3 | 120.9 | 112.3 | 102.0 | 95.1 | 92.6 |
| 70° | 121.3 | 115.6 | 113.9 | 111.0 | 102.4 | 92.6 | 86.9 | 84.8 |
| 72.5° | 113.1 | 106.1 | 104.9 | 102.4 | 93.4 | 84.8 | 77.9 | 75.0 |
| 75° | 103.7 | 92.2 | 88.1 | 83.2 | 72.1 | 62.3 | 56.5 | 54.5 |
| 77.5° | 83.6 | 80.3 | 77.4 | 73.8 | 63.1 | 53.3 | 47.9 | 45.5 |
| 80° | 68.0 | 66.8 | 65.2 | 63.5 | 52.5 | 42.2 | 28.7 | 25.4 |
| 82.5° | 49.2 | 47.1 | 48.8 | 50.0 | 40.6 | 25.0 | 19.7 | 17.6 |
| 85° | 27.5 | 25.8 | 25.4 | 27.9 | 22.9 | 17.6 | 12.7 | 11.1 |
| 87.5° | 23.8 | 22.1 | 20.9 | 19.7 | 13.9 | 11.9 | 9.8 | 8.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)